

ABSTRACT

Crystals of the tyrosine kinase domain of cytoplasmic tyrosine kinases and receptor tyrosine kinases that undergo ligand-mediated receptor dimerization are provided. In particular, crystals of a mutant of the tyrosine kinase domain of fibroblast growth factor receptor 1 (FLGK), alone and in complex with a non-hydrolyzable adenosine triphosphate analogue, are provided. Also provided are the high resolution three dimensional structures of crystalline FLGK, both alone and in co-complex with the adenosine triphosphate analogue, as determined by X-ray diffraction.

15

20

25

30

35